Join the **HellasQCI** **community** today!

HellasQCI aims at creating a National community for Quantum Communication Technologies. Anyone interested in Quantum Technologies is able to join this ecosystem. This community will analyse the results of the deployment of **HellasQCI** systems and networks and will also enable private sector quantum technologies start-ups and SMEs to shape their goals and create added value in this ecosystem.

Stay informed and connected to Quantum Communication Technology updates. **Subscribe to our newsletter** to receive latest news and key event dates and find out how you can join the **HellasQCI ecosystem**.

Newsletter

HᴑCi
HellasQCI - Quantum Communication Infrastructure for Greece

🌐 **hellasqci.eu**
in **hellasqci**
f **hellasqci**
🐦 **hellasqci**

Website

Community

Project Coordinator

grnet
National Infrastructures for Research and Technology
GRNET S.A.

Project Partners

HELLENIC REPUBLIC
Ministry of Digital Governance

HELLENIC REPUBLIC
National and Kapodistrian
University of Athens
EST. 1837

FORTH
FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS

NATIONAL CENTRE FOR
SCIENTIFIC RESEARCH "DEMOKRITOS"

ARISTOTLE
UNIVERSITY
OF THESSALONIKI

UBITECH
quantum technologies

COSMOTE

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MOTOR OIL

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WALTON
Institute for Information and
Communication Systems Science

HᴑCi
HellasQCI - Quantum Communication Infrastructure for Greece

Greece strengthens the resilience of its critical infrastructure by leveraging **quantum technologies**

HellasQCI will deploy advanced national QCI systems and networks in Greece by utilising, among other, Quantum Key Distribution (QKD), optical fibre and satellite technologies.

HellasQCI consortium includes governmental authorities, industrial partners and key Greek research institutes, able to address the needs for an operational **HellasQCI** infrastructure.

HellasQCI cooperates with PETRUS Coordination and Support Action (CSA) and other EU Member States in order to boost Europe's scientific and technological capabilities in **cybersecurity** and **quantum technologies**.

Co-funded by the European Union

EuroQCI

HellasQCI: Greece strengthens the resilience of its critical infrastructure against cyber threats by leveraging quantum technologies

HellasQCI architecture comprises of three metropolitan test sites located at major cities of Greece namely:

- **HellasQCI - Central** (Athens),
- **HellasQCI - North** (Thessaloniki) and
- **HellasQCI - South** (Heraklion-Crete).

— Terrestrial Fiber link
-- Satellite-to-earth link
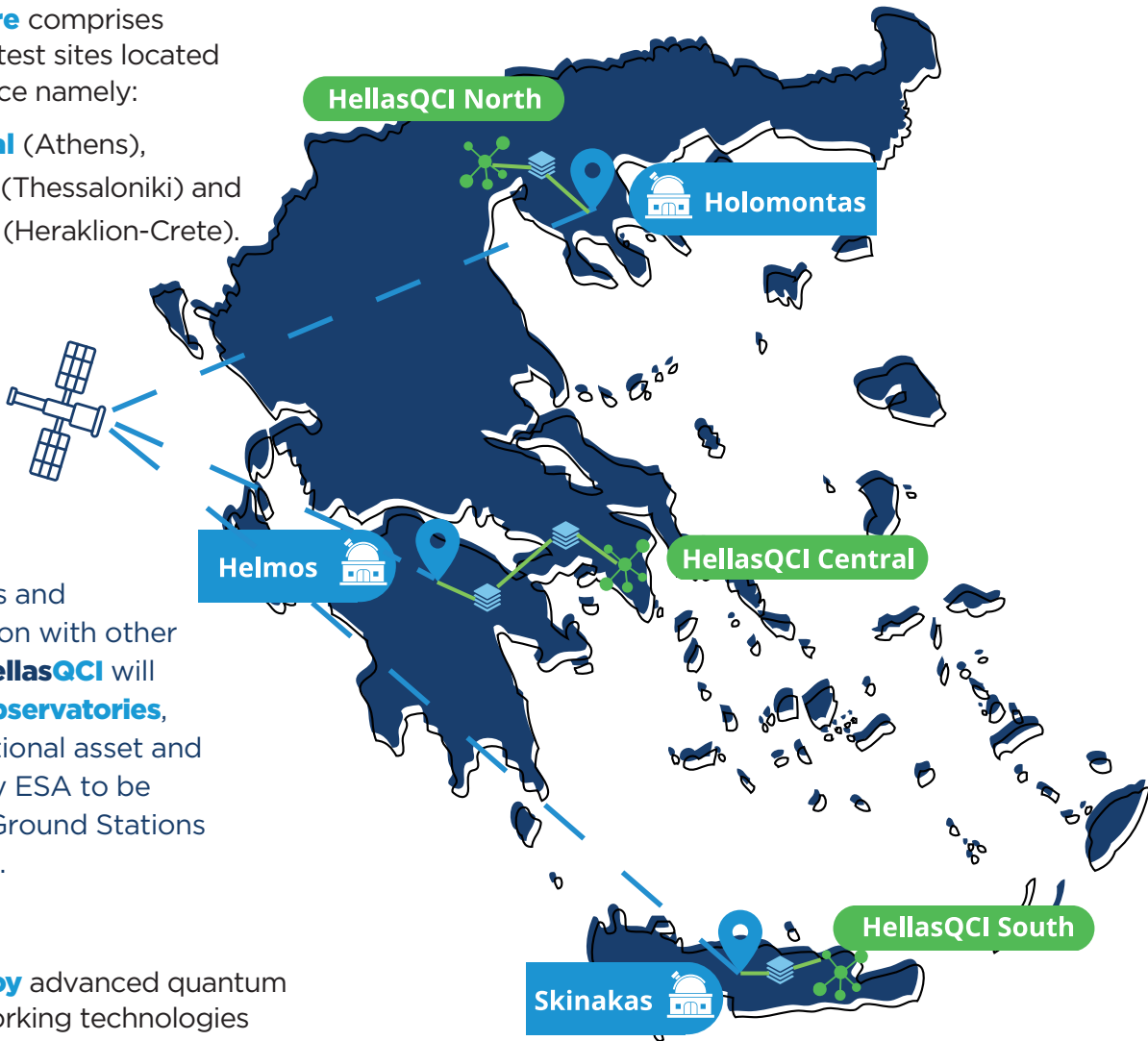Telescope 0GS
Trusted Node
Metropolitan area

For inter-test-site links and international connection with other **EuroQCI** members, **HellasQCI** will exploit three **Greek observatories**, which constitute a national asset and have been selected by ESA to be upgraded as Optical Ground Stations with **QKD capabilities**.

HellasQCI will:

- **Develop** and **Deploy** advanced quantum systems and networking technologies (QKD).
- **Perform** 16 advanced use cases in different application scenarios in several domains: National Security, Public Health, Industry, Critical Infrastructures, ICT and Research.
- **Provide** a holistic training environment for technical, research and end-users staff.
- **Collaborate** with PETRUS CSA and other National QCI Proposals for building together the **EuroQCI**: **HellasQCI** has made 7

bilateral partnerships with **Ireland, Luxembourg, Austria, Bulgaria, Cyprus, Malta** and **Poland**.

- **Establish** the **HellasQCI** community from all relevant national stakeholders that can benefit and support the **HellasQCI** networks, gather expertise and share knowhow on QCI and QKD.
- **Align** with the QKD security standards, certifications, and regulations.

HellasQCI North

Holomontas

Helmos

HellasQCI Central

Skinakas

HellasQCI South

HellasQCI is part of the European Quantum Communication Infrastructure Initiative (**EuroQCI**) and is coordinated by the National Infrastructures for Research and Technology (**GRNET** S.A.), operating under the auspices of the **Ministry of Digital Governance**.

HellasQCI proposal received letters of support from the:

- **Ministry of Defence**
- **Hellenic National Defence General Staff** – HNDGS (Army)
- Centre for Technological Support, Development and Innovation of the **National Intelligence Service of Greece**
- **Hellenic Police**

These security-related governmental authorities, including the Ministry of Digital Governance, which is a partner of the **HellasQCI** project and leads the digital strategy of Greece, support the implementation of **HellasQCI**, and showcase the need for QCI technologies in Europe.

Objectives

Objective 1: Build the National Quantum Networks infrastructure as part of the EuroQCI

Objective 2: Develop and Deploy advanced quantum systems and networking technologies

Objective 3: Advanced use cases in different application scenarios

Objective 4: Provide a training environment for technical, research and end-users' staff

Objective 5: Cooperation with EU Member States to build robust, interoperable and secure QKD systems and networks for the EuroQCI

Objective 6: National Stakeholder Engagement

Objective 7: Provide a secure architecture compatible with EU Standards and Certifications

Objective 8: Space segment connectivity

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